

Indian Pollution Control Association



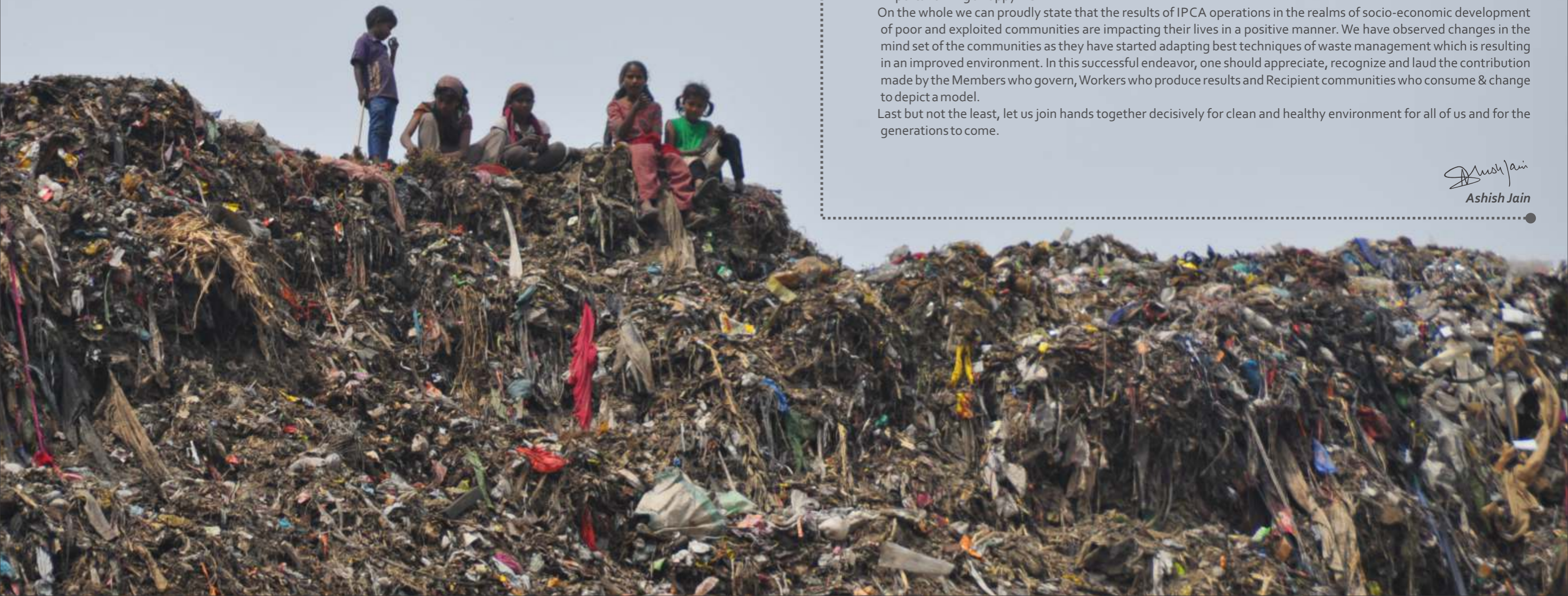
2014-15
Annual Report





“You can't solve a problem in the same frequency in which it was created”

A. Einstein



DIRECTOR'S MESSAGE



Clean and healthy environment is the right for all individuals and we must ensure the same for our Young Generations to come.

We all know that generation of waste is unavoidable for both developed and developing nations. The problems which occur with this waste is more severe for developing nations as developed nations have techniques and technologies to dispose off their waste in an environmental friendly manner. Waste management in developing nations is going through a very critical phase due to unavailability of suitable facilities to treat & dispose off mammoth quantities of waste. This is impacting all components of environment and human health. Hence, we must change the mindset of the community for stimulated growth of waste management sector to ensure waste reduction and environmental compliance. At the same time, we must ensure sustainability and improved socio-economic status of people throughout the waste management pyramid. With this objective, IPCA and its efficient team of professionals is working as a change maker for more than a decade. In a journey of more than a decade, we have tried to achieve milestones in the realm of waste management which includes efficient and effective waste collection system, increased participation of stakeholder in source segregation, higher rate of recycling and improved per capita income of rag-pickers.

Apart from this, we have tried to provide better health and education facilities to the most neglected sector of our community i.e. rag-pickers and their family members. In 2014-2015, we have focused more on Education and Health Programs for the children of rag pickers. Through our efforts, children who were illiterate, run away, abused, exploited, denied of their fundamental right of education are now curious to learn more, disciplined and the most important living a happy life.

On the whole we can proudly state that the results of IPCA operations in the realms of socio-economic development of poor and exploited communities are impacting their lives in a positive manner. We have observed changes in the mind set of the communities as they have started adapting best techniques of waste management which is resulting in an improved environment. In this successful endeavor, one should appreciate, recognize and laud the contribution made by the Members who govern, Workers who produce results and Recipient communities who consume & change to depict a model.

Last but not the least, let us join hands together decisively for clean and healthy environment for all of us and for the generations to come.

Ashish Jain
Ashish Jain



ABOUT IPCA

The Indian Pollution Control Association(IPCA) is a not-for-profit,non government organization(NGO) registered under the Societies Registration Act,1860,Foreign Contribution Registration Act, Section 80G of the Income Tax Act and entitled with Central Pollution Control Board.

The organization established in 2001 with the support of Indian Institute of Technology, Delhi and comprised of a multi- faceted group of environmentally conscious individuals who are from the business, legislative, legal, engineering, finance, energy and environmental sectors. The diverse group of individuals allows IPCA to reach out to both the public and private sectors and to educate them the importance of incorporating issues such as environmental considerations and self-sustainability into project or policy development for India. In the short span of our existence we have achieved several milestones and able to implement decentralized solid waste management and rain water harvesting systems at various corporate, institutes, industries and residential colonies and ensured source segregation of waste and channelized to proper processing for end of life solution. IPCA have also worked to provide solutions to environmental and climate related problems in urbanization, sanitation, industry, industrial waste and waste water management.

Our representatives have worked with and successfully managed a number of industrial projects and technical and policy studies for foundations,NGOs, and universities. We provide excellent oversight and management capabilities for our sponsors and work with the community, local NGOs and trusts.

ABOUT REPORT

IPCA is proud to present its annual report to all its stakeholders. This report highlights the key issues, relevant targets and our performance in the reporting period i.e. 1st April 2014 to 31st March 2015 and has been compiled for the benefit of all our stakeholders who include civil society members, project partners, regulators, employees and the society at large.

We welcome any comments, clarifications or inputs for improving the quality of our communication.



OUR MISSION

To link natural resource management with livelihood, improvements through responsible use of natural resources to advance the welfare of present and future generations. To create awareness and giving solutions for consumer protection to encourage sustainable development and also exploring and mainstreaming renewable energy options to mitigate carbon emissions.



OUR VISION

Economic development of India will be sustainable only if it is pursued in a manner that protects environment.

With this vision we are endeavoring to integrate and mainstream natural resource and environmental management concerns into development activities like education of underprivileged, livelihood security of poor and solid waste management by harmonizing the traditional wisdom with suitable policy measures. Our constant efforts are directional towards being



एक कदम स्वच्छता की ओर

- A great place to work where people are inspired to their best and equipped with the latest of information and technique.
- a responsible citizen that makes a difference by helping build and support sustainable communities
- a portfolio that anticipates and resolves environment related issues in a manner that also has a scope for improvisation of living standards of underprivileged who are directly or indirectly associated with us

OUR VALUES

Our values serve as a compass for our actions and describe how we behave in world

- Passion : We are committed in heart and mind to achieve and serve the best
- Accountability : Never compromise your value.
- Integrity : Be real and holistic in approach
- Leadership : The courage to shape a better future by revolutionizing the present

PROJECTS AND ACTIVITIES (2014-2015)

- National workshop on "Integrated Solid Waste Management in India"
- Zero Waste Campus at Central Pollution Control Board
- Integrated SWM Course for IPCA Staff
- International Workshop on "Safe Water and Sustainable Sanitation for underserved Community"
- Primary Education of rag picker's Children
- Capacity Building Programme for Teachers
- Doh-bin
- Tetra Pak collection and awareness on recycling
- Garbage recycling programme
- Destruction and Disposal of Industrial Waste
- Introduction of Destruction Facility at Bangalore
- Multi-material Collection and Baling Centre
- Patent for Wall Mounted Baler



NATIONAL WORKSHOP ON INTEGRATED SOLID WASTE MANAGEMENT IN INDIA

IPCA has organized National Workshop on Integrated Solid Waste Management in India in association with Centre for Environment and Climate Change of Indian Institute of Public Administration (IIPA) and Parkash Environmental Group (PEG) at Conference Hall, IIPA, Indraprastha Estate, Ring Road, Delhi-110002 on 25th April 2014.

AIM OF WORKSHOP

The aim of the workshop was to bring all stakeholders under one roof to understand the integral approach for sustainable solid waste management and practices.

THEMES

- Solid Waste Generation and Management Scenario in India
- Legal and institutional framework for solid waste management
- Role of NGOs in organizing the SWM sector and providing zero waste management solutions
- SWM practices in different sectors including corporate and institutions etc.
- Role of corporate in meeting the compliance for SWM
- Business models to develop wealth from wastes
- Technologies for Efficient Solid Waste Management

National workshop was attended by different stakeholders including policy makers, researchers, academicians, corporate, recyclers and NGOs.

Dr. Tishyarakshit Chatterjee, Director of IIPA, in his key note address emphasized upon the role of private players in effective and efficient management of solid waste. He observed that the solutions may involve complex inter-disciplinary fields such as technology, city and regional planning, geography, economics, public health, sociology and demographical studies. Dr. A.B. Akolkar, Member Secretary, Central Pollution Control Board, stressed that without an effective and efficient solid-waste management programme, the waste generated from various human activities, both industrial and domestic, will continue to affect our health, economy and environment. Prof. Pranab Banerji highlighted the economical aspects and policy initiatives such as PPP and PES to the management of solid waste management.

Dr. Radha Goel, Advisor, IPCA brought forward the role of IPCA in managing Municipal and Industrial Waste. She has presented self sustainable model of IPCA to attain end of life solution to waste and discussed various activities of IPCA to create awareness among the stakeholders for source segregation of waste.

Mr. R.C. Rastogi, MD, Khateema Fibre shared his vast knowledge and facts on paper recycling and encouraged participants to promote waste recycling for sustainable environment. He mentioned in his address that recycling is a convenient and novel way to manage the solid waste.

Waste management practices for corporate as a way to make CSR an intrinsic part of their business model was discussed by Mr. Jaideep Gokhle, Communications Director, South Asia Markets and Cluster leader Communications, South & South East Asia, Tetra Pak India Pvt. Ltd.

Dr. Shyamli Singh, Asst. Professor, IIPA who was also a coordinator for the National workshop have presented policy framework for solid waste management in India.

Mr. Ashish Jain, Director, IPCA concluded the workshop with his concluding remarks and vote of thanks with appeal to the participants to come forward and work together to save and sustainable environment.



ZERO WASTE CAMPUS AT CENTRAL POLLUTION CONTROL BOARD

The project was inaugurated on 5th June 2014 (Environment Day) by honorable Member Secretary of CPCB, Dr. A.B. Akolkar in presence of whole CPCB team. IPCA team introduced and explain about the activities of the project to the whole CPCB staff and people presented during inaugural ceremony. The project is proposed for one year duration (June 2014- June 2015) with the total budget allocated is of ₹ 3.68 lacs.

AIM OF WORKSHOP

The aim of the project is to make the Central Pollution Control Board (CPCB) campus of Delhi as a litter free zone and create a role model for integrated solid waste management among various government and non-government institutes and associations. Following are the objectives of the proposed project:

- Awareness Campaign on Integrated solid waste management at CPCB Delhi Campus
- To start practices of source segregation of MSW
- Recycling of waste at its maximum to reduce the burden of its disposal on sites and impacts on environment
- To set up a treatment facility for biodegradable solid waste within the campus

Site Description and Waste Generation in Campus

The head quarter of CPCB is located in East Arjun Nagar of East Delhi. The campus is having a 5 story building surrounded by lawns from three sides and parking on forth side. Each floor is having two wings, one occupied by administrative activities, where mostly paper waste is generated. Another wing on 2, 3 and 4th floors are occupied by Laboratories, where glass, metals and plastic wastes are generated. The total organic waste generated in the campus is 2.5 -3.0 tons/month, which include approximately 0.5 tons/month of kitchen waste and rest is from horticulture. The dry waste generated in the campus include paper (357 kg/month), plastic (55.5 kg/month), polythene (9.5 kg/month), cartons (114kg/month) and misllaneous (28.2kg/month), which goes for recycling. The inorganic inert, which goes to the landfill site is approximately 115.5kg/month.

Activities under implementation of the project

1. Facilitating segregation of waste

Two numbers of plastic bins (green colored for organic waste and another blue colored for recyclable waste, each of 60 Ltr. Capacity) and one Tetra Pak bin (60 Ltr. Capacity) were installed on each floor. Therefore, in total 12 plastic bins (6 green colored and 6 blue colored) and 6 Tetra Pak bins were installed in CPCB campus for segregating the dry and wet waste.

2. Awareness campaign

Awareness among campus staff and to visitors on source segregation and recycling of MSW has been created using different educational tools, like posters/banners display, street play, mailer, talks etc. The waste segregation bins on all identified locations will be properly labelled with posters.

3. Treatment and disposal of biodegradable waste

A composting plant of approximately 2.5 tons/ month capacity has been designed and constructed within the campus premises to convert their horticulture waste into manure to use it for campus gardening. The four vermi beds, each of 100 kg capacity were designed, out of which 3 are of size of 12 feet X3 feet are being used for vermi- compost and 4th of size 3 feet X 3 feet is being used for vermi-culture. Windrow composting method is being followed by final decomposition through *Easinea foetida* worms. The composting plant is shaded to avoid direct exposure to rains and excessive heat from sun.

4. Services providing by IPCA

- Installation of Twin Bins System at CPCB campus to start practices of source segregation.
- Awareness on source segregation and best Solid Waste Management Practices.
- Set up vermi-composting unit to treat bio-degradable waste.
- Efficient waste collection services from each floor.
- Training / operation of vermi-composting unit.
- Channelize segregated recyclable waste from CPCB campus to recycling industries at its maximum.
- Disposal of non-recyclable component of waste (meniscal in amount) to nearby community bins for final landfill disposal.

Achievements

- Complete segregation practices are being followed by each staff in CPCB campus through our segregation campaign.
- 100% recycling of dry waste.
- Horticulture waste is completely recycled in form of manure, which is being used in campus gardens.
- CPCB campus is now acting as a "role model for zero waste campus"

Targets for financial year 2015-16

- To renew the contract for providing services to CPCB
- To approach to the other campuses, i.e. MoEF campus, shopping complexes etc. for installing zero waste management facilities with support from CPCB.



INTEGRATED SOLID WASTE MANAGEMENT (ISWM) COURSE

IPCA started a new initiation in the area of Education and Capacity Building. IPCA has conceptualized and designed a course on "Integrated Solid waste Management" which has been initiated in November 1st 2014 with the aim to equip the staff of IPCA at executive level with the knowledge of Basics of Environment, Solid Waste Management, Systems Thinking and Climate Change. The objectives of the programmes are as follows:

- To build the capacity of IPCA's executive staff who have systemic understanding of waste management in context of environment, climate change and sustainable development and prepare themselves to plan and implement accordingly.
- To equip the staff with comprehensive abilities to diagnose various issues, identify existing waste related problems, develop strategies to mobilize citizens and provide feedback to IPCA.



Activities under implementation of the programme

1. Orientation of the programme

On 1st November 2014, orientation of the ISWM course was occurred, which was attended by total 11 office staff (including 3 female staff) of IPCA.

2. Classes/Tutorials

Every Saturday, classes were organized covering the subjects/ topics of basics of environment, status of waste management in India, systems thinking approach etc.

3. Monitoring of progress of staff

The progress of the staff was evaluated by written tests and exhibition. The performance of faculty was also evaluated by feedback forms.

Achievements

- Almost 10 sessions on each identified subjects have been arranged under the course programme.
- Almost 70% of the total office staff have got training under the programme.

Targets for financial year 2015-16

- IPCA is targeting to trained its 100 % office staff and make them more efficient to understand the issues related to the environment and the approached to manage them.
- IPCA is planning to organize practical training sessions along with the theory classes to understand the issues better.
- Site visits including industrial, waste management facilities and interaction with experts will be planned in coming financial year to make the staff more competent in understanding the issues of environment, which will further enhance the working capacity of IPCA.



INTERNATIONAL WORKSHOP ON “SAFE WATER AND SUSTAINABLE SANITATION FOR UNDERSERVED COMMUNITY”

An international workshop on “safe water and sustainable sanitation for underserved communities” was organized by IPCA at IIT Delhi on 16th January 2015 with the financial support from IDS and technical support from Centre for Rural Development and Technology (CRDT), IIT Delhi. The purpose of conducting the workshop was to bring together the technologists, social entrepreneurs, researchers, NGOs, academicians and policy makers at a same platform to understand the issues of safe drinking water and sanitation at underserved communities, especially communities of waste collectors in urban areas, and discuss/demonstrate the low cost technologies/ models, which are either available or they can be developed for such communities. Beyond learning about the latest developments in the field, the venue offers the possibility to network, tap funding, and even make a difference on the ground.

In Delhi NCR alone, about 1 lakh rag pickers are working through approximately 5000 Godowns/ communities. The workshop's objective is to improve the living conditions of these communities of rag pickers by suggesting them certain sustainable low cost technological solutions for sanitation and drinking water through an integrated approach.

The **organizing committee** of the workshop included Dr. Padma Vasudevan, Professor, IITD (Retd.), Dr. Satyawati Sharma, Professor and Head, CRDT, IIT Delhi, India, Dr. Sameer Prasad, Professor, U-WW and IDS Board Member, USA, Mr. Ashish Jain, Director, IPCA, Delhi, India, Mr. Ajay Garg, Secretary, IPCA, Delhi, India and Dr. Radha Goyal, PDF, IIT Delhi, India.



The workshop was inaugurated with the welcome address by Dr. Satyawati Sharma, Prof. and Head of CRDT, IIT Delhi. Dr. R.M. Bhardwaj, Chief Scientist and Head of PAMS division was invited as the guest of the honor and he address the audience on regulatory framework and Govt. initiatives for providing safe water and sanitation to urban poor'. The Introduction and Purpose of the Workshop was delivered by Dr. Sameer Prasad.

The programme of the workshop was divided in three sessions. First and second sessions were dedicated to technologies for sanitation and water followed by session III on policy framework for the theme area of the workshop. The brain storming session was arranged at the end of the day with final concluding remarks presentation by Dr. Sameer Prasad.

Session-I was chaired by Prof. Padma Vasudevan. The lectures were included from World Bank, WaterAid India, NEERI Nagpur and from IPCA on the topics of “rural water supply and sanitation”, “low cost sanitation technologies for urban poor”, “research and development trends for low cost sanitation technologies in India as well as abroad” and on “challenges for providing safe water and sustainable sanitation to under-served communities in urban India” respectively.

Session-II was chaired by Dr. Sunil Kumar, Scientist, NEERI Nagpur. The lectures were included from Dr. P.K. Jha, Chairman, Foundation for Environment & Sanitation who spoke on “Toilet linked biogas plants: a sustainable sanitation option”, Mr. Ankit Srivastava, Domain Head, E-Square Solutions Pvt. Ltd., Delhi spoke on “Energy Free Zero Discharge Toilets”, Dr. Arun Kansal, Professor, TERI University, Delhi, and Er. Harleen Kaur, Director, ICUC Consultants Pvt. Ltd. Delhi, who delivered the lectures on “Bio-methanation of Kitchen Waste – a Low Lost Waste Management Technology” and on “Challenges in Solid Waste Management in India” respectively.

Session –III Covered the lectures on “Policy Framework: Provisioning Sustainable Drinking Water” by Dr. Shyamli Singh, Asst. Prof. IIPA, Delhi, “Rapid Composting Technology for Waste Management” by Dr. Satyawati Sharma and on “A Systems Thinking Approach of Sanitation in Informal Urban Settlements” by Dr. Sameer Prasad. The session was chaired by Dr. Arun Kansal.

Findings: Beyond networking, some of the important findings from the workshop includes, time phased approach, demand driven services, role of science, organizational & managerial issues, quality, behavior change, cost/benefit analysis, identification of constraints/bottlenecks, accounting for stakeholder regional variation, and dynamic interplay between communities, science, and services.

IPCA and other partners in the workshop look forward for developing a tailored preventative healthcare/ sanitation/clean water program for rag pickers and tribal communities reaching some 5000 individuals eventually.

PRIMARY EDUCATION OF RAG-PICKERS' CHILDREN (CONTINUED....)

"He who opens a school door, closes a prison"- **VICTOR HUGO**

"The education which does not help the common mass of people to equip themselves for the struggle of life, which does not bring strength of character, a spirit of philanthropy and the courage of a lion-is it worth the name? Real education is that which enables one to stand on one's own legs"-
SWAMI VIVEKANAND

AIM OF THE PROJECT

It was this social and noble cause that led IPCA to undertake primary education as one of its key projects. IPCA believes that education is much more than academic achievement alone. It is also about developing a passion for learning, capacity for independent thinking, moral values, self confidence without arrogance and a broad range of interests that extend beyond the confines of a classroom. IPCA is already working for the welfare of rag-picker's community (almost 700 waste collectors are working under the umbrella of IPCA), making them aware of importance of waste management, health and hygiene and environment related issues. Because of lack of resources and facilities, the children of rag picker's community do not go to school and without education it is difficult to improve their lifestyle and social status. In this direction IPCA envisage to meet the following objectives through this project

1. Develop moral and social responsibility among rag picker's children
2. Provide primary education through fun learning activities
3. Through primary education aware rag picker's community about general health care and sanitation
4. Improve lifestyle and social status of rag picker's community
5. No child becomes rag picker without his or her own wish

The project is supported by India Development Services(IDS), a group of volunteers at Chicago, USA. The total funds available in year 2014-15 under the project were - ₹ 7,99,018/-

ACTIVITIES

Establishing Schools for Rag picker's children: IPCA has started five pre-schools, two in Bhowapur, Ghaziabad, two in Indrapuram, Ghaziabad and one in Noida sector 73 has been established in year 2013-14. Each school has 30 to 35 children and in total 150 children are getting pre-education in our schools. Study material are provided to each children. They are taught by fun learning activities. Besides academic and intellectual development, the school endeavors to help each child discover one's innate talents and abilities. It seeks to instill in the children proper habits, positive attitudes and

values such as truthfulness, self-respect, self-control, sense of duty, good manners, fair play, team spirit, dignity of labor, punctuality, compassion, freedom of mind and a rational and scientific approach. Conscious effort to foster pride in and love for the country and its greatness and tradition of tolerance is also made.

*IPCA is not only helping to educate them but also helping them to get admission in nearby government schools.



Teacher's training: For successful teaching, rich subject knowledge and understanding of how to teach both are necessary. However logistics of balancing the two is very challenging and both these aspects of teaching are made understood to the teacher through our teacher's training programme. IPCA provides training to them for activity based teaching and fun learning activities.

Women Empowerment and Capacity Building: IPCA encourage the girl children to get admission in its schools. Out of approximately 150 children, 80% are girl child who are getting primary education in our schools. Further, female teachers are mostly appointed in the schools, who are from rag picker's community only (works on a self-sustainable model). That's how IPCA is building capacity and empowering the rag picker's women within their community along with educating the girls of community.



Workshops and Seminars: Regular workshops and seminars are held to equip the teachers with newer teaching techniques for making classroom teaching more interesting and effective. An educator is a lifelong learner committed to making the learning experience for every student a rewarding one.

ACHIEVEMENTS

- Moved from open sheltered schools to classrooms with constructed roofs and toilets.
- Developed fun learning tools as teaching aids to create interest among children
- Nineteen children got admission in Government schools in current year.
- Three female teachers from rag picker's community got trained under teacher's training programme with the aim of building the capacity among the community.
- Health data of children has been recorded to further work on improving their health through our health campaigns.
- Each children got shoes.

TARGET FOR FINANCIAL YEAR 2015-16

- Develop appropriate infrastructure and facility, i.e. furniture's, drinking water facility, provide summer and winter uniforms to school children
- Fetch the funds from Delhi Govt. to establish five more pre-schools for rag picker's children in Delhi with the aim to enroll all the 100% children (age below 15 years) of waste collectors working under IPCA umbrella i.e. approximately 300 more children.

CAPACITY BUILDING PROGRAMME FOR TEACHERS

IPCA initiated a training programme for the teachers in November 2014, with the aim to train the teachers for primary schools of IPCA initiated for Rag Picker's Children under their primary education programme. The teachers for this programme are selected from rag picker's community itself to build their own capacity.

Activities under the implementation of the programme

Training Classes – training classes for the teachers are arranged thrice in a week for two hours after the school. The training classes involves introduction to pedagogy for teachers. They are receiving the training on “how to conduct the classes for children for different age groups (from 4-15 years)?”; “how to develop the fun learning education tools?”; “how to maintain the documentation records of attendance, height and weight of children?”; “how to address the problems of children?” etc.

DOH BIN PROJECT (CLOSED IN NOVEMBER 2014)

AIM OF THE PROJECT

Doh Bin is a pilot project, was initiated in DLF Phase IV, Gurgaon, in year 2013 with the aim to sensitize the masses and increasing their involvement to bring about a better waste management system in Gurgaon through the simple act of segregating wet and dry waste in their homes, offices, etc. The prime objective of the project was to maximum utilization of resources to reduce waste, which can indirectly result in less air, water and soil pollution, reduce pressure on landfill sites and reduce cost on transportation. Project was also designed to increase per capita income of waste collectors and their good health through following objectives:



- To increase per capita income of waste collectors and contractors.
- To reduce cost on storage and transportation through compact baling of waste material.
- To provide safe and hygienic environment to waste collectors
- To increase recycling rate of Municipal solid waste through efficient segregation.
- To stop illegal use and recycling of waste material through monitoring and introduction of authorized recyclers to the facility.
- To eliminate the role of supplier and middle man in the MSW Supply Chain
- To get segregated waste at source
- To educate waste generators / consumers on efficient waste management.
- Promotion of local self-responsibility for a clean environment.

The project was funded by TetraPak India Pvt. Ltd. and Coca Cola India Pvt. Ltd. with Hindustan Times as media partner. The funds available to IPCA for year 2014-15 were ₹ 11,25,000/-. The project was closed on 30th November 2014 and the closure report has been submitted to the sponsors on 15th December 2014.

ACTIVITIES

1. Awareness and Education: under this section, project team has organized various events and activities with the objective to exchange information on waste management and encourage residents to segregate their waste at source. IPCA has also developed the education material, including pamphlets, brochures, posters etc. for door to door waste segregation campaign under the various activities of the project, which are as mentioned subsequently:

Door-to-door campaign: after the successful launch of the project, it was the time to interact with people and communicate them about Doh Bin's initiative and asked them to support the initiative by segregating their waste into two categories (Dry and Wet). Project team used different tools for door-to-door campaign, which are as follows:

Volunteers: Eight students from Management Development Institute, Gurgaon joined the initiative for volunteering and did door-to-door campaign on every weekend.

Field staff: IPCA, the implementing agency of Doh Bin has also appointed field staffs for day to day liaising with residents and RWAs.

Training of Domestic Helpers: Training session for domestic helpers was organized on every 10th day of each month. To encourage and motivate them for source segregation initiative, project team has also distributed refreshment packet to domestic helper in the training session.

Training of waste collectors: Training of waste collectors was also very crucial with respect to increase their per capita income. Project team has also educated waste collectors on different waste categories, which can be recycle and has recycle value. They were also taught about the available buyers and recyclers for different waste commodities.

Brainstorming session with volunteers: 1st Saturday of every month was scheduled for brainstorming sessions with volunteers. These sessions were very helpful to understand the need and problems of residents and helped project team to develop future action plan. Many creative ideas developed through these sessions only.



Kid's Carnival: Project team has organized numbers of kid's carnival at different locations with the objective to sensitize the young minds about managing their own waste and asked them to take this learning to their home, school, and neighbors. Kid's carnival was also experimented with activities like "Click and Win Completion, Recycling Art, Quiz Show and Street Plays" on waste segregation and won recycled note book as token of prizes.

Senior's Citizen Carnival: The project team organized Senior's Citizen Carnivals in the project area and to encouraged them to join carnival, project team has invited Health Expert and waste management experts in that carnival. Health expert talked to them on their health issues and gave them very useful tips for healthy life and on the other hand our waste experts talked to them on benefits of source segregation on social, economic, and environment and urged them to join the campaign by start segregation of waste at their home and also asked other to do. The event was attended by large number of people and very much appreciated.

Exhibition of Recycled Products: The project team displayed recycled products from used tetra pak carton and PET bottles. People were amazed to see those products and this activity helped people to understand the direct impact or benefit of their little efforts during disposal of waste into dustbin.

Street Play: to keep the momentum alive and spread the message to mass, project team used the tool of street play. Professionals has performed plays on weekend at project area and attracted large number of people. People get entertained and received message "why segregate waste".

2. Infrastructure for efficient Waste Management: under this section, project team has worked on designing and fabricating of two chamber cart, set up of dry waste collection center and worked on tools to increase recycling rate and per capita income of waste collectors.

TOOLS USED FOR PUBLICITY OF PROJECT

Facebook Page and Website: Project team has used social media, which is very popular among the young generation and timely updated all event and activities on facebook. Doh Bin facebook page (www.facebook.com/dohbin) was liked by 408 people from different locations and professions. Project team also shared valuable information, video and pictures on waste management through facebook page. Project team has developed website for project Doh Bin (www.doh-bin.com) and tried to educate people thru webpage also. Doh bin webpage has been updated with information on dry and wet waste categories and why is important to segregate waste?

Printing Media: project media partner Hindustan Times played very crucial role in highlighting the Doh Bin and waste management issue in Gurgaon. Hindustan Times published pre and post event coverage along with interviews of stakeholders including residents, experts, Municipal Corporation and brought the issue of waste management in Gurgaon in the main stream. Now, Doh Bin is not restricted to project area boundary, it is being discuss in other residential complexes, meetings, and workshops. Media has also published factoids on waste recycling as an information tool.



ACHIEVEMENTS

- Project was successfully executed at plotted area of DLF Phase IV, Hamilton Court and Richmond Park (Multi-Story Apartment) and reached appx. 1497 families with appeal of source segregation.
- Income of waste collectors has increased by 85% as they received segregated waste from allotted residents, which is dry and has more economic value.
- Six Masters level students from TERI University, Delhi and Don Bosco University, Assam received training under the project to understand the ground reality of MSWM in Delhi and NCR.
- Two composting pits were also dug by IPCA in the backyard of Richmond Park to handle their horticulture waste.
- Horticulture staff of the societies were trained to operate and maintain their composting pits
- Project team could able to implement three bin system in Richmond Park by putting separate bin for the collection of e-waste and prevent disposal of e-waste at landfill or processing through illegal channel.
- Waste collectors has started using gloves and mask during segregation that can protect them from many diseases skin and lung diseases.
- Vertical Hydraulic Bailer at Dry Waste Collection Center has reduced work load on the workers and increased their work efficiency.
- Waste contractor can store more waste material at the center by compacting waste by the hydraulic bailer, which may add more profit to their business.
- Waste contractor are getting more value to the compact waste material because that reduced transportation cost at least 5 times.
- Source segregation and increased recycling rate has also reduced the pressure on landfill site.
- Project Doh Bin has brought stakeholders to a common platform to discuss their problem related to solid waste management. In this way a sustainable network build in the community.
- Source segregation finds its place in people talks and action.
- The achievement under education and awareness programme and the infrastructure and development programme of Doh Bin in year 2014-15 are given below in table 1 and 2 respectively:
- Segregation rate of 53.97% was achieved among the residents of project area, where we conducted awareness activities and campaign. The details of achievement are given in table 3 for different societies of DLF Phase IV.

TABLE 1: " AWARENESS PROGRAMME" OF DOH BIN IN YEAR 2014-15

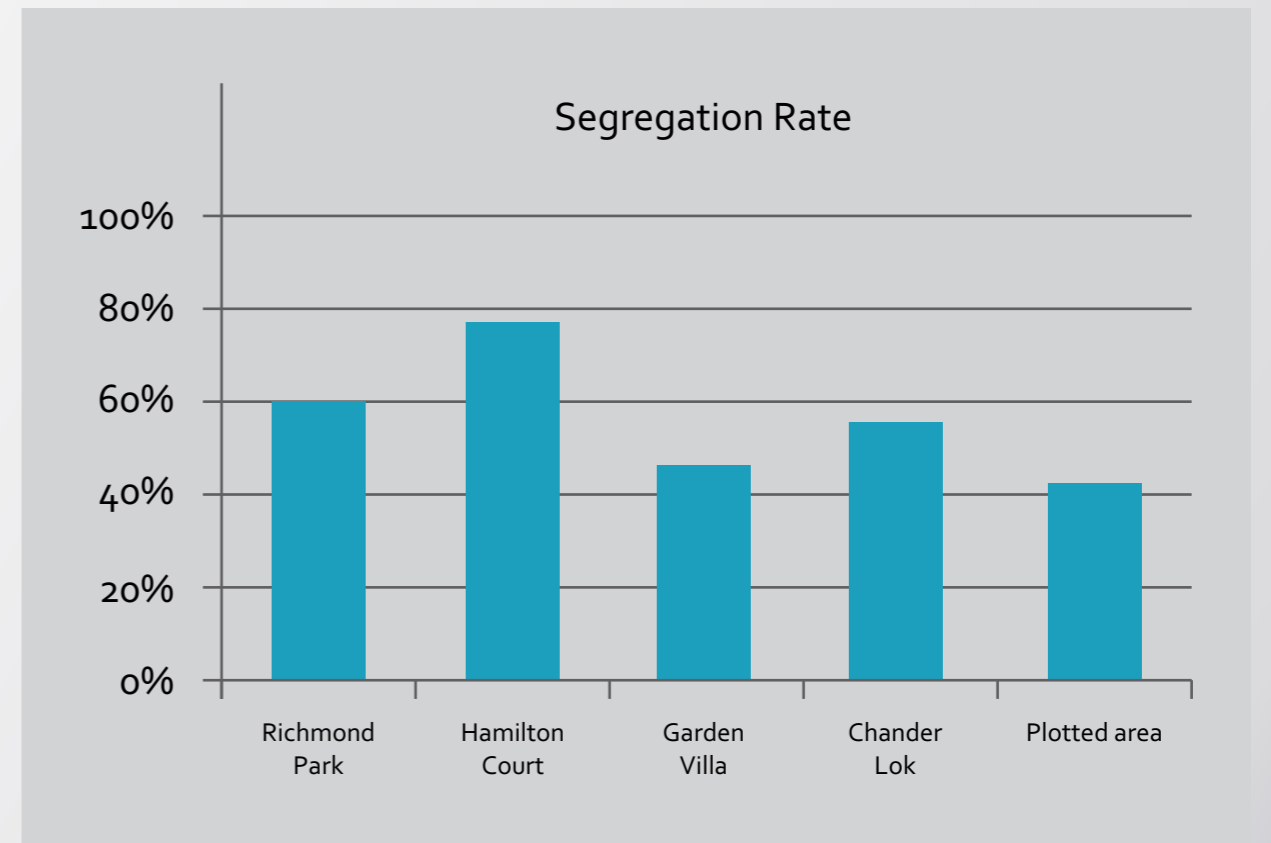
S.No.	Name of Activity	No. of Activities	Total Participants
1.	Domestic Helpers Trainings	14	173
2.	Waste Collectors and contractors Training	11	126
3.	Session with residents	6	72
4.	Kids Carnival	4	195
5.	Senior Citizen Carnival	3	162
6.	Recycled Products Exhibition	3	-
7.	Click N Win	1	-
8.	Developed two chambers rickshaw	4	-
9.	Door-to-door campaign	Regular	1495

TABLE 2: "INFRASTRUCTURE AND DEVELOPMENT PROGRAMME" OF DOH BIN IN YEAR 2014-15

S.No.	Resource	Quantity
1.	Leased Godown at Ghitorni	1000 sq. yard
2.	Vertical Hydraulic Baler	1
3.	DG Set for 3 Phase electric connection	1
4.	Shed for vertical hydraulic baler	1
5.	Partitions for storage of segregated waste	3
6.	Fire extinguishers	4

TABLE 3: ACHIEVEMENT ON SEGREGATION OF WASTE IN DIFFERENT LOCATIONS OF DLF PHASE IV

Location	Total No. of Dwellings	Segregate	Do Not segregate	No response	Segregation rate
Richmond Park	280	172	108	0	61%
Hamilton Court	266	205	61	0	77%
Garden Villa	35	17	18	0	48%
Chander Lok	200	110	90	0	55%
Plotted Area (surveyed by Chic)	714	303	206	204	42%



AWARENESS ON TETRA PAK CARTON COLLECTION AND RECYCLING (CONTINUED...)

AIM OF THE PROJECT

The aim of the project is to facilitate discussions and information regarding the usefulness of environment and its preservation practices and perspective. The following are the objectives of the program:

1. To educate scrap dealers/waste collectors about the value of Tetra Pak's Cartons and convert their response into segregation and collection of Tetra Pak's carton from the Municipal Solid Waste.
2. To operate the "Paryavarán Mitra" club for the benefit of scrap dealers/waste collector's communities and put effort to make scrap dealers or waste collectors as an active members of the club.
3. To organize various activities to provide direct or indirect benefit to the club members.
4. To disseminate knowledge and information about 100% recycling of Tetra Pak's carton and such packaging materials are good for earth.
5. To make the system of Tetra Pak carton collection, economically more efficient and sustainable.
6. To perform R&D in the field of development of low cost recycling and waste volume reduction technologies.
7. Improving the sanitary condition of Delhi NCR through a recycling based waste management approach.
8. Promotion of local self-responsibility for a clean environment.

The project is supported by Tetra Pak India Pvt. Ltd. The funds available for financial year 2014-15 is ₹1921920/-

ACTIVITIES UNDER IMPLEMENTATION OF PROJECT

Workshop with Scrap Dealers

IPCA has identified different geographical area in Delhi NCR, where waste collection or scrap dealer's community live and also identified scrap dealers/waste collectors who deals in trading of Raddi (RS) and they must have potential to collect or segregate Tetra Pak's Cartons. These people invited into the workshop and motivated by IPCA team to segregate Tetra Pak's Cartons from their collected waste. **In 2014-15, total sixteen workshops have been organized in Delhi NCR.**



Health Check Up Campaign

It is pragmatic that the waste collector's community is prone to get infection and disease during their work of waste collection and segregation; therefore, it is imperative to provide a regular health checkup facility to these communities for their secure and better health. With this aim, IPCA has organized a number of health checkup campaigns along with health education camps for scrap dealer/waste collector's communities to make them aware about health risks associated and to take certain health precautions while handling the waste. The team of doctors from reputed hospitals, i.e. Kailash Hospital, Noida, Metro Hospital, Preet Vihar, Narendra Mohan Hospital, and Ghaziabad are involved with IPCA in conducting these health checkup campaigns. **In year 2014-15, 10 health camps have been organized in different parts of Delhi NCR.**

Paryavarán Mitra Club Meet

IPCA has formed Paryavarán Mitra Club of waste collectors and scrap dealers. Every year it organizes at least two meets with the objective to provide them entertainment and feel good factor. Prizes are also distributed to the persons who have collected the maximum number of Tetra Pak to motivate the others to do the same.

In year 2014-15, first meet was organized on 21st August at Water Park, Alipur, as an entertainment meet for all Paryavarán Mitra Club members. **Second meet was organized on 25th December** at Laxmi Public School ground in Karkardooma, where Cricket match has been played by all Mitra club members and the event was thoroughly enjoyed by waste collectors and they got motivated to live life as they desire. It was the wonderful demonstration for team work among the waste collectors, corporate, school and NGO.

ACHIEVEMENTS

- Total 444 tons of Tetra Pak cartons have been collected by IPCA team in year 2014-15.
- 1241 people have been benefited through our 10 health camps in Delhi NCR.
- 882 people have been educated through workshop on collection and segregation of Tetra Pak cartons
- Approached 3 new clusters in Delhi NCR for collection of Tetra Pak cartons, which increased our collection by 11.26%

TARGET FOR YEAR 2015-16

- IPCA targets to collect 600 tons of Tetra Pak cartons in financial year 2015-16.
- Stepping to organize health camps in associations with reputed hospitals of Delhi NCR.
- To reach more people and clusters and making them aware on collection and segregation of Tetra Pak cartons.



GARBAGE RECYCLING PROGRAMME (CONTINUED....)

The garbage recycling programme of IPCA is running from last twelve years, under which IPCA is providing services of Door-to-Door Municipal Solid Waste Collection to the residential and commercial complexes of Delhi NCR with the aim to upgrade the SWM by using natural methods of processing of the waste i.e. vermicomposting of the organic bio-degradable waste, which can be used for horticulture, gardening and can replace the hazardous chemical fertilizers from the environment. The main objective of the project is to successfully demonstrate the technical, environmental and socio-economic feasibility of SWM system coupled with recycling of every components of the waste.

ACTIVITIES UNDER IMPLEMENTATION OF PROJECT

In the current supply chain, IPCA take contract from RWA/estate management/builder/corporate/institutes/industry for door-to-door collection of Municipal Solid Waste and deputized team of waste collectors. IPCA provide space for primary segregation to these waste collectors within 3 Km radius of the source of waste generation then these waste collectors take away the primarily segregated recyclable waste to waste contractor warehouse and IPCA dispose of the disposable organic waste at the Landfill site. Following activities are part of implementation of the project.

Waste Collection

IPCA is providing its services of door to door municipal solid waste collection to approximately 140,000 households in Delhi NCR. IPCA has a team of approximately 700 workers. Every waste collector collects garbage from approximately 200 households in residential colonies. Further, IPCA team also collects garbage from corporate office, market, and institutes. IPCA team wore uniform and identity card during their job. IPCA has also deputized supervisor on waste collectors for monitoring and complaint redress of the job.



In year 2014-15, IPCA team has collected total of 22.7 tons/day of garbage in Delhi NCR excluding the garbage collected under Doh Bin Project, which is 3 tons/day.

Waste Transportation and Segregation

The garbage transported to the IPCA's own site by its own vehicle for further segregation and end of life processing of waste. The collected waste was segregated into different components like plastic, paper, cardboard, organic bio-degradable etc.

IPCA has added one more multi-material collection center at Dallupura in year 2014-15, which is having 500 yards area for segregation and baling of the recyclable material. The center received 444 tons/year of Tetra Pak and 345.5 tons/year of tissue paper and laminated paper cups for recycling.

Waste Recycling

The biodegradable waste goes to our commercial vermi-composting site at Noida for recycling. The site is in partnership with Citizens Environment Improvement Society (CEIS). The total organic waste converted to compost in year 2014-15 is 50 tons. The non-biodegradable waste, including papers, plastics and Tetra Pak are sent to recyclers for converting it into recyclable waste products.



TARGETS FOR FINANCIAL YEAR 2015-16

- Reach to at least 2,00,000 households for door-to-door collection of waste
- Educate household on source segregation
- Increase rate of recycling by channelizing maximum content of waste to the authorized recyclers
- Looking for the government support for decentralized SWM in Delhi NCR.

DESTRUCTION AND DISPOSAL OF INDUSTRIAL WASTE (CONTINUED.....)

IPCA is involved in destruction and disposal of industrial waste project since year 2002 and has been able to conceptualize the process of eco-friendly destruction and disposal of damaged stock of industries with the following objectives:

- Destruction of damaged goods to avoid misuse.
- Recycling of the waste products by using eco-friendly practices.
- Safe disposal of disposable waste by following recommended methodologies and technologies.
- To improve environment, and support sustainable industrial growth.

ACTIVITIES UNDER IMPLEMENTATION OF PROJECT

IPCA has studied various ranges of consumable products and developed the recommended methodology for destruction, recycling and disposal of their damaged products under following categories:

- a. De-label of the Damage Stock
- b. Destruction of Label/Packaging Material
- c. Destruction of Products

To perform the above activities, IPCA has 27000 square feet area and in instrumentation, one unit of aerosol destruction machine, one electric baler, one shredder, one crusher and one unit of organic waste converter.

The industries who are in network of IPCA for destruction and disposal of their damaged stock are, Reckitt Benckiser India Ltd., Procter & Gamble Home Products India Pvt. Ltd., Agrotech Foods Ltd., Central Warehouse Corporation (CWC), Bakers Circle India Pvt. Ltd., and Fenwal India Pvt. Ltd. IPCA works at PAN India level and receives the waste from all parts of India.

IPCA has opted two new industrial waste destruction facilities in Bangalore, Karnataka (4500 square feet) and in Gazipur, Delhi (4500 square feet), which are useful addition to its resources in year 2014-15 with the aim to reduce the cost of transportation and accelerate the rate of destruction. Both new facilities together destructed approximately 530 tons (180 tons by Bangalore facility and 350 tons by Gazipur facility) of industrial waste.

IPCA has processed in total of approximately 1500 tons of industrial waste in year 2014 and the total manpower involved is 55 at all three destruction facilities of IPCA.



ADD ON RESOURCES AND FACILITIES @ IPCA IN 2014-15

- **Multi- material Center** – at Dallupura, Delhi with 500 yards of area for collection, segregation and baling of Tetra Pak and Paper waste.
- **Bangalore Destruction Facility**– official address of facility is - 6/2, Jaya Laxmi Industrial Estate, Opposite Himalaya Drug Company, Tumku Road, Makli with total area of 4500 square feet.
- **Gazipur Destruction Facility**- official address of facility is – B-57, Road No. 5, Gazipur Dairy Farm, Delhi-110096 with total area of 4500 square feet.
- **Crusher for Food Packets** – IPCA has conceived the concept of food packet crusher, which was adopted by Agrotech Foods Ltd. to develop and fabricate the instrument. The instrument is installed at IPCA's Nazafagarh Destruction facility and is running successfully.

RESEARCH AND DEVELOPMENT @ IPCA

- Patent of wall mounted baler- the design of wall mounted baler has been patented in year 2014.

PARTICIPATED/SUPPORTED EVENTS/ PROJECTS BY IPCA IN 2014-15

- Supported the Municipal Solid Waste Management India 2015 at India International Centre on 12th March 2015
- Supported International Exhibition & Conference on Water, Wastewater, Sanitation, Solid Waste Management and Clean Energy at Pragati Maidan from 10-12 September 2014.
- Supported ChemTech World Expo 2015 at Bombay Convention and Exhibition Centre, Mumbai from 28-31st January 2015.
- Participated in 3rd Inclusive, Integrated Solid Waste Management at Pragati Maidan from 26-28 February 2015

Quiz, awareness sessions mark environment day in Gurgaon



Children of Richmond Park, DLF City Phase-4, have a gala time participating in the quiz organised as a part of the 'Doh Bin' initiative, on World Environment Day.

Sneha Agrawal
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GURGAON: Even as environmentalists fight with the state government to protect the forest areas in Gurgaon, many corporate firms here took a more hands-on approach towards the cause of the environment and organised awareness programmes and other events on World Environment Day.

The residents of Richmond Park, DLF City Phase-4 had a joyous time participating in an event under the "Doh Bin" campaign organised on their premises on Thursday evening. The event comprised several informative competitions on recycling of waste. "After attending a session with Indian Pollution Control Association,

around 90% of households in our society now segregate their dry and wet waste. When you have an organisation supporting to take up a cause, implementation of such ideal practices becomes much easier," said Veena Padmanabhan, member, RWA, Richmond Park.

Various activities were also organised at DLF CyberHub in Cyber City. These included a kids' art exhibition, an exhibition-cum-sale of merchandise from WWE an awareness campaign by an NGO that works for the environment, a pledge wall, a photo booth and quiz competitions.

Ritwik, a student of The Start Ram School, said, "I had a great time participating in the quiz competition on environment. I got to know several new things of how we can protect the environment by taking small initiatives at home."

Meanwhile, doctors and staff at Paras Hospitals participated in a plantation drive around the hospital and a talk about the "health" of the planet on Thursday.

Honda Motorcycle and Scooter India Pvt Ltd (HMSI) started its week-long celebrations on the occasion of World Environment Day at its Manesar factory with a tree plantation ceremony.

This was followed by environmental pledges taken by all Honda associates to stay committed towards environment protection in their work areas and day-to-day lives.

Another environmental group started a reward scheme, the points of which can be combined for discounts on a slew of products and services.

'Doh Bin' project holds awareness camp for waste collectors

HT Correspondent
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GURGAON: The garbage collectors are the ones who help you keep your houses clean and healthy, but what about their own health?

In order to address this issue, the Indian Pollution Control Association (IPCA), under its waste segregation project 'Doh Bin', organised a training session for waste collectors in DLF-4 on Wednesday.

The training focused on the health issues of these workers, the importance of waste management and how they can spread awareness.

Doh Bin aims at sensitising the masses on how sorting waste material — separating wet from dry waste — in homes and offices can help in recycling the limited resources available today.

You can sell the garbage at a better price, thus making a few extra bucks," said Ashish Jain, director, IPCA, while addressing the waste collectors.

Jain said that more than 75 families of DLF-4 have become associated with the waste segregation project since it started about three months ago.



Waste collectors at an awareness camp organised by IPCA. The camp focused on the health issues of these workers, the importance of waste management and how they can spread awareness.

'Need to switch to decentralized model of waste management'

EXPERT SPEAK

GURGAON: If we adopt decentralized solid waste management systems, especially in condominiums, along with source segregation, we can reduce the amount of garbage at landfill site by 90%.

And, only 10% of the total waste, for which we do not have technology to manage, will go there.

If only the segregation process is followed, recycling will go up by 20%, and it will reduce the amount of waste reaching landfill site by 25%.

Besides, if residential societies have an organic waste converter and hand over solid waste to the recycler and make compost out of biodegradable garbage, just 10% of the total waste will reach the landfill site.

We need new technology to recycle wastes like laminated wrappers and thermocol as we do not have one in place as of now. They are dumped at the site.

Of the total waste produced in Gurgaon, around 40% is biodegradable and another 50% is recyclable.

The rest 10% includes wrappers and disposable packaging material.

If we are not segregating at source then of the 50% recyclable, we can recover only 25%. But

Products made from recycled waste mesmerise residents

HT Correspondent
hreporters@indianexpress.com

GURGAON: Beautiful photo frames, stationary boxes and table tops on display at Chandanok society in DLF-4 on Saturday. But, what made the exhibition unique was the fact that all these items were made out of used beer caps, T-shirts and thread made from recycled bottles.

The exhibition was organised by the Indian Pollution Control Association (IPCA) in association with Coca Cola, Tetra Pak, Parkash Environmental Group (PEG), DLF City RWA and Hindustan Times. The idea behind organising this exhibition was to show the residents that recycling can have aesthetic results. The waste materials have been recycled to make products of functionality. We used to be aware of waste management and recycling to reduce the amount of waste we generate," Jain said.

"By showcasing these products, we asked the residents to make the disposal of waste more efficient on their part so that something good like this can come out of this," he added.

The response from the residents was very good. The exhibition

City residents warm up to 'Doh Bin': welcome need to segregate garbage

RAJINDA A STYKA

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"By showcasing these products, we asked the residents to make the disposal of waste more efficient on their part so that something good like this can come out of this," he added.

The response from the residents was very good. The exhibition

Helps get lesson on waste segregation

HT Correspondent
hreporters@indianexpress.com

GURGAON: Lack of proper knowledge about waste management is posing a huge threat to the city's ecology.

To tackle this problem, the Indian Pollution Control Association (IPCA), through its waste segregation project 'Doh Bin', organised a training programme in Gurdev Vihar of ICPA on Wednesday. Around 150 residents helped waste present during the event.

The training is a part of IPCA's initiative to spread awareness on waste segregation.

This programme is being supported by Coca Cola, Tetra Pak, Parkash Environmental Group (PEG) and DLF to work with Hindustan Times. "Waste management needs to be understood of the nature. It is

कुड़े को अलग करने की दो परियोजनाएं शुरू

विजय

गुरुगढ़: कूड़े को अलग करने के दो परियोजनाएं शुरू की गई हैं। इन परियोजनाओं के अंतर्गत शहर के निवासियों को कूड़े को अलग करने के तरीके के बारे में बताया जा रहा है।

एक परियोजना में निवासियों को कूड़े को अलग करने के तरीके के बारे में बताया जा रहा है।

दूसरी परियोजना में निवासियों को कूड़े को अलग करने के तरीके के बारे में बताया जा रहा है।

Children at a workshop held as part of the Doh Bin initiative on Saturday at DLF Club in DLF City phase-4, Gurgaon.

HT Correspondent
hreporters@indianexpress.com

GURGAON: The Indian Pollution Control Association (IPCA) has organised a three-day workshop for senior citizens in DLF 4 as a part of its awareness campaign about garbage segregation practices under the project 'Doh Bin'.

The training focused on the economic, environmental and health benefits of waste segregation.

The project, 'Doh Bin', aims to sensitize the masses on how sorting waste material — separating wet from dry waste at the stage when it is generated — can help in recycling garbage.

To drive source segregation of waste, the 'Doh Bin' project has been engaging residents, particularly children, adults apart from



The workshop, which was part of the 'Doh Bin' campaign, focused on the economic, environmental and health benefits of waste segregation.

Garbage collectors learn tips to segregate waste

HT Correspondent
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GURGAON: As part of an awareness campaign aimed at sensitising the use of separate dustbins for degradable and non-degradable waste, the Indian Pollution Control Association (IPCA) on Saturday organised a workshop for waste collectors in DLF City Phase 4.

The workshop, which was part of 'Doh Bin' campaign, focused on the economic, environmental and health benefits of waste segregation.

The project is aimed at sensitising people on how separating wet from dry waste at the stage when it is generated can help in recycling garbage and protect the environment.

Safety of garbage collectors is also a major concern of the campaign. Garbage collectors are exposed to all sorts of road waste that often affect their health.

The use of limited resources can be improved by separating wet and dry waste in the beginning of the recycling process. Also, if the waste is segregated properly, waste collectors can sell garbage at a better price and earn more income.

Initially, the waste collectors were reluctant to carry two separate bags for dry and wet waste.

Earlier, the garbage collectors were hesitant in asking residents for segregated waste, but now they are willing and confident after undergoing sessions. All the waste collectors agree with us as they are feeling the difference from the last three months. Residents are also supporting them in source segregation," said Ajay Garg, secretary, IPCA.

The IPCA, in association with Coca Cola, Tetra Pak, DLF City RWA, Hindustan Times and Parkash Environmental Group, has been conducting training programmes for waste collectors regularly since the project was launched on December 1, last year.



Gurgaon sitting on a garbage time bomb, say environmentalists

HT Correspondent
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GURGAON: The city generated 300 tonnes of waste per day in 2011 when the population was just about 15 lakh. Now, however, it is just a decade, Gurgaon will grow to house nearly 20 lakh residents who will produce about 1,000 tonnes of garbage a day. Quite a challenge it will be, as the city's garbage disposal infrastructure is already bursting at its seams.

It is in this backdrop that Tetra Pak and Coca-Cola have come together to launch a mass awareness campaign — 'Doh Bin' or 'Two Bins' — for better waste management in DLF 4 area by way of educating people to segregate waste at the very level of its source. The initiative will bring together NGOs, RWAs and corporate houses.

"It is always better to start segregating waste at our end, rather than waiting for it to become a massive job as when the citizens are back that it will be segregated and recycled. Our system is not capable enough to handle such a process and efforts should begin at home. Gurgaon is sitting on a garbage time bomb," said Vivek Kamble, environmentalist.

Given that Gurgaon is a city that is still growing and growing with widespread construction activities almost everywhere, dumping of construction material in green belts is rampant. "Dumping of garbage, waste materials and sewage is going on freely between Vashikha City and Naraina City on the Golf Course Extension Road. It is a threat to the green belt and also environmentalists. Several complaints have been submitted to the authorities in the past, but in vain," said Ramon Sharma, president of Parkash Environmental Group, Parkash, RWAs and corporate houses.

"It is always better to start segregating waste at our end, rather than waiting for it to become a massive job as when the citizens are back that it will be segregated and recycled. Our

Cartons to classrooms

HT Correspondent
hreporters@indianexpress.com

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IPCA, Doh Bin conduct workshop for sr citizens

HT Correspondent
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To drive source segregation of waste, the 'Doh Bin' project has been engaging residents, particularly children, adults apart from

Garbage piling up, city stares at imminent civic disaster

REPORT SAYS If Bandhwa plant does not get operational by mid-march, the site will see a total accumulated and untreated waste of more than 1.35,000 tonnes

HT Correspondent
hreporters@indianexpress.com

GURGAON: A report by the Indian Pollution Control Association (IPCA) says that the city is facing an imminent civic disaster due to the massive pile-up of garbage at the Bandhwa site. The report says that if the Bandhwa plant does not get operational by mid-march, the site will see a total accumulated and untreated waste of more than 1.35,000 tonnes.

The report also says that the city's garbage disposal infrastructure is already bursting at its seams. It is in this backdrop that Tetra Pak and Coca-Cola have come together to launch a mass awareness campaign — 'Doh Bin' or 'Two Bins' — for better waste management in DLF 4 area by way of educating people to segregate waste at the very level of its source. The initiative will bring together NGOs, RWAs and corporate houses.

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CONSTRUCTIVE WEEKEND



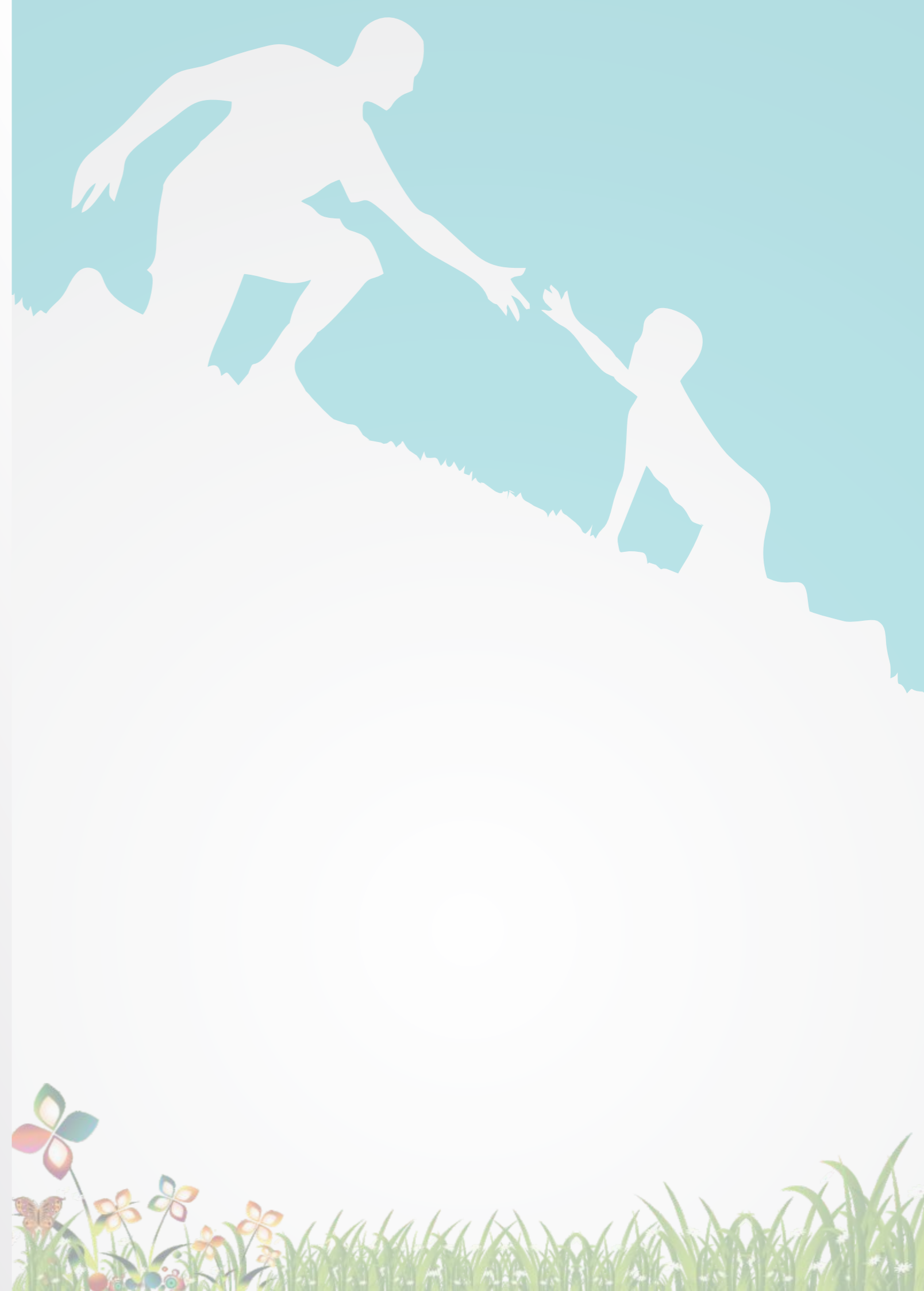
Children at a workshop held as part of the Doh Bin initiative on Saturday at DLF Club in DLF City phase-4, Gurgaon.

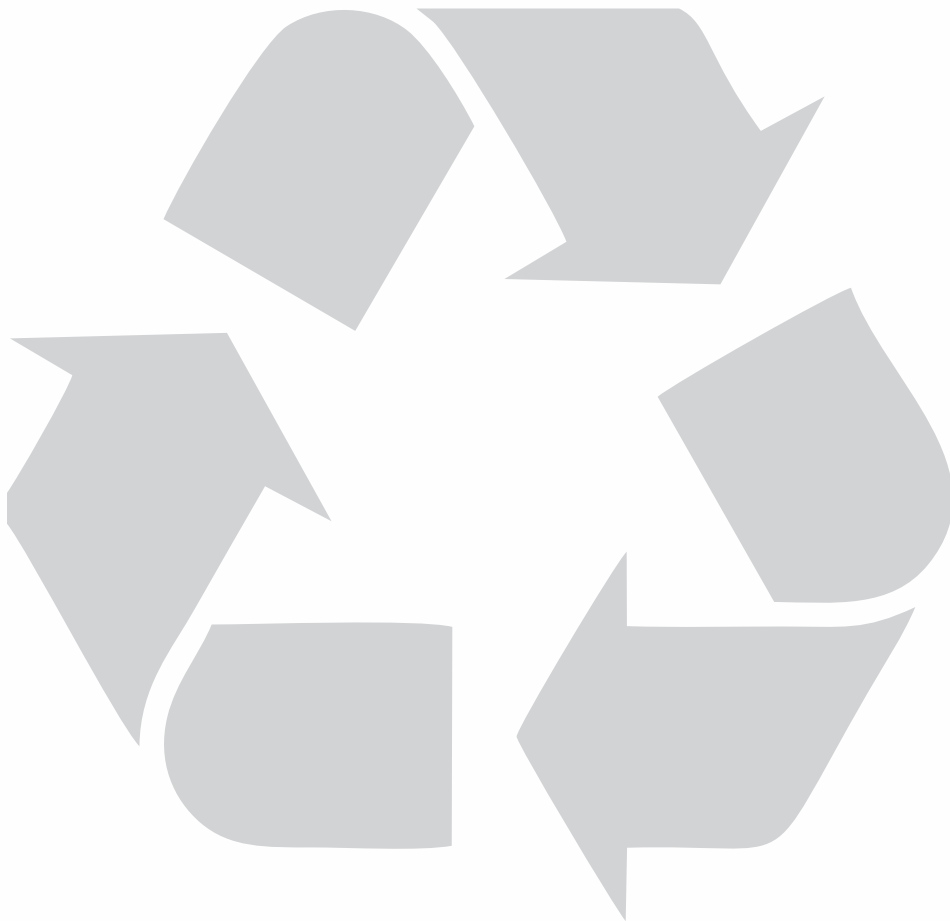
PROJECT PARTNERS OF IPCA

- Tetra Pak India Pvt. Ltd.
- Coca Cola India Pvt. Ltd.
- Parkash Environmental Group (PEG), Delhi
- Citizen's Environment Improvement Society, Noida
- India Development Service (IDS), Chicago, USA
- Central Pollution Control Board (CPCB), Delhi
- Messe Frankfurt Trade Fairs India Pvt. Ltd
- Prospur Events Promotions Pvt. Ltd.
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